

For Research Use Only

RIG-1/DDX58 Monoclonal antibody

Catalog Number: 67556-1-Ig **6 Publications**



Basic Information

Catalog Number:

67556-1-Ig

Concentration:

2000 ug/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG18591

GenBank Accession Number:

BC132786

GeneID (NCBI):

23586

UNIPROT ID:

O95786

Full Name:

DEAD (Asp-Glu-Ala-Asp) box polypeptide 58

Calculated MW:

925 aa, 106 kDa

Observed MW:

101/106 kDa

Purification Method:

Protein G purification

CloneNo.:

3B10F5

Recommended Dilutions:

WB 1:5000-1:50000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, ELISA

Cited Applications:

WB, IF

Species Specificity:

human

Cited Species:

human, duck

Positive Controls:

WB : A-253 cells, SW 1990 cells, MDA-MB-231 cells, SCaBER cells, HeLa cells

IF/ICC : HepG2 cells,

Background Information

DDX58, also named as RIG-1, belongs to the helicase family. It is involved in innate immune defense against viruses. Upon interaction with intracellular dsRNA produced during viral replication, triggers a transduction cascade involving MAVS/IPS1, which results in the activation of NF-kappa-B, IRF3 and IRF7 and the induction of the expression of antiviral cytokines such as IFN-beta and RANTES (CCL5). Detects dsRNA produced from non-self dsDNA by RNA polymerase III, such as Epstein-Barr virus-encoded RNAs (EBERs). It is essential for the production of interferons in response to RNA viruses including paramyxoviruses, influenza viruses, Japanese encephalitis virus and HCV. The antibody is specific to DDX58, which has two isoform with the MW of 106 and 101 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Qingxiao Zhu	39842367	Vet Microbiol	
Weiran Wang	39644722	Poult Sci	WB
Jingyan Shen	38772149	Redox Biol	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

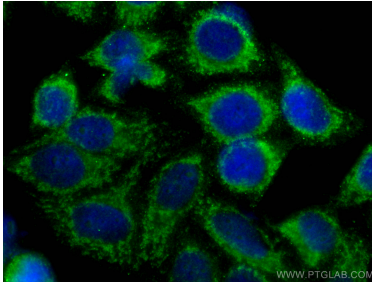
T: 4006900926

E: Proteintech-CN@ptglab.com

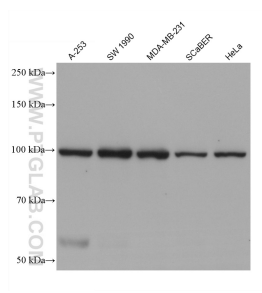
W: ptgcn.com

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Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using RIG-1/DDX58 antibody (67556-1-Ig, Clone: 3B10F5) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 67556-1-Ig (RIG-1/DDX58 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.